Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

- 1. (currently amended) A method for buffering data streams of same data type, wherein
 - a first read data stream contains labels marking entry points for seamlessly switching to data from another stream of same data type;
 - the first read data stream including the labels is buffered in a buffer;
 - a request for seamlessly switching to a second data stream of same data type is received, the second data stream being contained in a different file than the first data stream;
 - an entry point for seamless switching to the second data stream is determined within the buffered first data stream by selecting the first label (L2*)-that is buffered after a minimum amount (L1)-of buffered data, the minimum amount (L1)-being the maximum amount of data that may be read out of the buffer during a specified time (t_{min}), wherein the specified time (t_{min})-is the time between receiving said request and buffering the second data stream; and
 - the second data stream is read and buffered in at least logically the same buffer, the buffering starting from said first label (L2*).
- 2. (currently amended) Method according to claim 1, wherein pointers containing the buffer address of the buffered entry points are buffered separately, and are used for determining said first label (L2*).
- 3. (currently amended) Apparatus for buffering data streams of same data type, wherein the data streams are contained in different files and a data stream may contain labels marking entry points for seamlessly switching to data from another stream, the apparatus comprising:

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- means for receiving data streams or reading data streams from a storage medium;
- first buffer for buffering a first data stream, including the contained labels;
- means for receiving a request for seamlessly switching to a second data stream of same data type as the first data stream;
- means for determining within the buffered first data stream an entry point for seamless switching to the second data stream, wherein the entry point is determined by selecting the first label (L2*)-that is buffered after a minimum amount (L1)-of buffered data, the minimum amount (L1)-being the maximum amount of data that may be read out of the buffer during a specified time (t_{min}), wherein the specified time (t_{min})-is the time between receiving said request and buffering the second data stream; and
- means for buffering the second data stream in the first buffer, wherein the buffering starts from said first label (L2*).
- 4. (currently amended) Apparatus according to claim 3, further comprising a separate buffer for buffering pointers, the pointers indicating positions in the first buffer where the entry points are buffered and being used for determining said first label (L2*).
- 5. (currently amended) Method or apparatus according to any of the previous elaims claim 1, wherein said data type is video, audio or subtitle data.
- 6. (currently amended) Method or apparatus according to the previous claim claim 5, wherein said buffered data may be read, without interruptions and without buffer underrun, after an initial filling procedure, the initial filling procedure comprising filling the audio and subtitle buffers partly before filling the video buffer completely.
- 7. (currently amended) Method or apparatus according to any of the previous elaims claim 1, wherein the first and the second data stream are read from the same storage medium.

- 8. (currently amended) Method or apparatus according to the previous claim claim 7, wherein the storage medium is a removable optical disc.
- 9. (currently amended) Method or apparatus according to any of the previous elaims claim 1, wherein the data stream is an MPEG video stream, and an entry point is a group-of-pictures boundary.
- 10. (currently amended) Method or apparatus according to any of the previous elaims claim 1, wherein the method or apparatus is used for video angle switching.
- 11. (currently amended) Method or apparatus according to any of the previous elaims claim 1, wherein a label may refer to a plurality of specific second data streams of same data type, wherein an arbitrary method is used to determine the second data stream to be read or received.